



Alternate Means

May 26, 1999
SSAC Breakout Session

Progress

- Drafted Steps For Applicant and FAA
- Considered 3 Levels
 - Objectives Level
 - Process Level (e.g., SCM, SQA, ...)
 - System/Safety Level
- Considered Some Scenarios
 - Example: COTS/Service History Rationale



Applicant's Steps

- 1) The applicant should involve the FAA and designees
- 2) The applicant should identify the objectives for alternate means by mapping to DO-178B objectives.
- 3) The applicant should document the intention of each objective or process that is seeking alternate means.
- 4) The applicant should document their rationale.
- 5) PSAC should also state what data will be produced.
- 6) The PSAC should also document what data will be submitted or made available to the FAA as evidence.
- 6) The applicant should submit appropriate results.



FAA's Steps

- 1) The FAA should review the applicant's proposed alternate means against the objectives of DO-178B.
- 2) The FAA should work with appropriate technical experts (e.g., NRS, international cert authorities, etc.) to understand the "intent" of the DO-178B objectives that are not met.
- 3) The FAA should evaluate the applicant's analysis and rationale.
- 4) The FAA and applicant should come to an agreement on the adequacy of the alternate as soon as possible in the program. The agreement should be documented in the PSAC.

Next Steps

- Complete Documentation of Applicant and FAA's Steps for Objectives and Process Approach
- Develop Position on System/Safety Approach
- Coordinate with SC-190/WG-52 and SSAC
- Coordinate with CAST
- Determine How To Coordinate Alternate Means Among Cert Authorities